

**DuPont Legal**

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FAX COVER PAGE**August 29, 2006**

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Re: Serial No.: 10/051,902
Our Ref: BB1163 US DIV

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Pages: _4_ Including This Cover Sheet

Clean Copy of Appendix A – pages 1-3

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M.....	A.....	CA.LASM.S..	LGVD.GV.SG	Consensus #1					
10	20	30	40	50	60				
1	MASDELA	KAVBPR	KGNVX	-----	YASICAL	ASNASVILGYDIGVMSG	SEQ ID NO20.pro		
2	MSRGINK	AMSDDP	PTTAS	KVIADP	DLKXPK	RNRKRFACATLASMTSVLLGYDIGVMSG	SEQ ID NO30 (GI 1778093).pro		
1	MSRGINK	AMSDDP	PTTAS	KVIADP	DLKXPK	RNRKRFACATLASMTSVLLGYDIGVMSG	U64903 (GI 1778094).pro		
1	MITGBVS	-----	VDSDYTM	NKPKR	RNRKYAFACAL	LASMSVLLGYDIGVMSG	AF215837 (GI 12004315).pro		
A..Y.K.D...D.Q....GI...Y.L.GS...RTSH									
IGRR									
I.V.A..I.F.G...									
(R/K)XGR(R/K)									
70	80	90	100	110	120	Consensus #1			
45	AAMVTK	DLNITD	VQLEIL	IGLSYSL	FGSPAGARTSH	RIGRLTVVFAAVIFFVGSLL	SEQ ID NO20.pro		
61	AITYLK	EDWHIS	DTQIG	VLVGL	LNIVCL	FGSPAGRTSHWIGRR	SEQ ID NO30 (GI 1778093).pro		
61	AITYLK	EDWHIS	DTQIG	VLVGL	LNIVCL	FGSPAGRTSHWIGRR	U64903 (GI 1778094).pro		
48	ASIVLK	BDLHPS	DVQIRI	IIIGI	INIVSL	GSATAGRTSHWIGRR	AF215837 (GI 12004315).pro		
MG.A.N...LM.GRPV.G.GVGY..MIAPVYTA.E..P..SKOPLT.FPBVPIN.G.LGY							Consensus #1		
130	140	150	160	170	180				
105	NGFAVN	YGNLM	AGRF	VAGV	GYGGM	IAPVYTAISPAASRGPLTTPBVPINIGILLGY	SEQ ID NO20.pro		
121	NGPATN	YAPLM	VGAF	VTGIG	GYALM	IAPVYTAISPAASRGPLTTPBVPINAGILLGY	SEQ ID NO30 (GI 1778093).pro		
121	MGFATW	YAPLM	VGAF	VTGIG	GYALM	IAPVYTAISPAASRGPLTTPBVPINAGILLGY	U64903 (GI 1778094).pro		
108	NGLATN	YAPLM	VGAF	VTGIG	GYAMM	IAPVYTAISPAASRGPLTTPBVPINIGVLLGY	AF215837 (GI 12004315).pro		
..SN.AF...P..L.WR.ML.IGA.PS..LA..V..MESPRL..GRL..A..VL...S							Consensus #1		
190	200	210	220	230	240				
165	LSNPAP	ARILPL	HLGW	RVMLA	IGAVP	SGLLALVPCN	ESPRLVLEKGRADARAVLHETS	SEQ ID NO20.pro	
181	ISNLA	PSLPT	HLG	SWR	FM	LIGAI	PSIFLAIGVLANP	ESPRLVMOGRLGDAKKNRIS	SEQ ID NO30 (GI 1778093).pro
181	ISNLA	PSLPT	HLG	SWR	FM	LIGAI	PSIFLAIGVLANP	U64903 (GI 1778094).pro	
168	VSMFA	PAKCP	LN	LGWR	INL	IGAF	PSVALALIVLM	ESPRLVMOGRLGDAKKNRIS	AF215837 (GI 12004315).pro

PESPRWL or PESPRXL

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...BBA..RL..IK..AGI.....D...V.....VWK..L...PT..VR.....
250 260 270 280 290 300
225 ATPEEAERLADIKAAAGIPKGLDGVVTPKKEGGGBLVNKKLLSPPTPAVRRLLS SEQ ID NO20,pro
241 DSPBEAQLRLSRIKQTAGIPACDEDIKVEKTKIKSGN-AVWKELFPNPTPAVRRAVIA SEQ ID NO30 (GI 1778093).pro
241 DSPBEAQLRLSRIKQTAGIPACDEDIKVEKTKIKSGN-AVWKELFPNPTPAVRRAVIA U64903 (GI 1778094).pro
228 TSKEERARQLSDIKBAAGIDKDCMDV--VQVPKRTKDR-AVWKELILHPTKPVKHAIE AP215837 (GI 12004315).pro
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..G.HFFQQA.G.D.VV.VS.R.F..AGI....K.L..T.AVG.V.KT.PIL..TP..LJ..
310 320 330 340 350 360
285 AVGLHFFQQA.SGSDSVVQ.SARIPKAGITDDNKLGLVFCAGVTKTPTILVATPPLPRA SEQ ID NO20,pro
300 GIGIHFFQQA.SGIDAVVLYSPRIQSAGITMARKQLLATVAVGVVKTFLVATPPLPXY SEQ ID NO30 (GI 1778093).pro
285 GIGIHFFQQA.SGIDAVVLYSPRIQSAGITMARKQLLATVAVGVVKTFLVATPPLPXY U64903 (GI 1778094).pro
AP215837 (GI 12004315).pro
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(R/K)XGR(R/K)

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GRRL.L.S.GGM.....L...LTV.....WA..L.I.....FG.G.GPI
370 380 390 400 410 420
345 GRRL.L.L.ISTGMIVSLICIGSGLTVAGHHPDTKVAWVALCISTLSYIAFPSTGLPI SEQ ID NO20,pro
360 GRRL.L.L.ISTGMIVSLICIGSGLTVAGHHPDTKVAWVALCISTLSYIAFPSTGLPI SEQ ID NO30 (GI 1778093).pro
360 GRRL.L.L.ISTGMIVSLICIGSGLTVAGHHPDTKVAWVALCISTLSYIAFPSTGLPI U64903 (GI 1778094).pro
345 GRRL.L.L.ISTGMIVSLICIGSGLTVAGHHPDTKVAWVALCISTLSYIAFPSTGLPI AP215837 (GI 12004315).pro
```

```
..VY.SR.PPL..RA.G...GVA.NR..S..I...F.....T.GG.P.L....A...W
430 440 450 460 470 480
405 TGVYTBRIPLQVRALGFAYGVASNRVTSAVISMFLSUSKATIGSPFLYSGIAAYAN SEQ ID NO20,pro
419 TNYVSSSEVPPLRLRAQGTSMGVAVNRVSGVISIFPLPSHKITTGGAFFLPGGIAIAY SEQ ID NO30 (GI 1778093).pro
419 TNYVSSSEVPPLRLRAQGTSMGVAVNRVSGVISIFPLPSHKITTGGAFFLPGGIAIAY U64903 (GI 1778094).pro
404 ANVYSSEVEPLRLRAQGSIGVAVNRGMSGIIQMTFISMFKAMTIGAFLLFAVVASIGV AP215837 (GI 12004315).pro
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PETAGRXXXE -- SEQ ID NO20 has an R in place of the Q (similar to sugar beet sequences)

	.P...T..	PETGR.LB.	..LF..	500	510	520	530	540	Consensus #1
465	VFFTTC	PETRGRTLE	NGKLTG-----	MPDTGABE	ARDAAKRV-----	VELP	SEQ ID NO20.pro		
479	PEFLTP	PETRGRTLE	NNHLLFED-PR	NRSEFPGN-KS	NNDENSTRKQ	SGNDKSVQLG	SEQ ID NO30 (GI 1778093).pro		
479	PEFLTP	PETRGRTLE	NNHLLFED-PR	NRSEFPGN-KS	NNDENSTRKQ	SGNDKSVQLG	U64903 (GI 1778094).pro		
464	VFMVYNE	PETQGRNLEE	IRLLFGSYFQWR	KTKLDL-KAK	BAEAKSRBS-----		AF215837 (GI 12004315).pro		
						Consensus #1		
			550						
511	SSK						SEQ ID NO20.pro		
537	RTTSTTVINDNR						SEQ ID NO30 (GI 1778093).pro		
537	RTTBSV-----	QV					U64903 (GI 1778094).pro		
512	-----EV						AF215837 (GI 12004315).pro		

The boxed residues correspond to the sequences conserved in the sugar transporter subfamily of the major facilitator superfamily (MFS).

Shade (with black at 40% fill) residues that match SEQ ID NO20 (corn) exactly.
*Shading removed on August 28, 2006

Consensus #1: When all match the residue of the Consensus show the residue of the Consensus, otherwise show ..